Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Agi Day
PO040082	ACI001-VC	1	1			1018-1025 Round Bar MATERIAL: AISI 1018- 1025 ROUND BAR SPECIFICATION: MII-S- 7097 OR ASTM A108				4	6/8/2018	4		S079411	Stock	6/8/2018	\$ 142.50 / ft	
		2'			Stra	1010-1025 Steel Bar .750 X .750 : MATERIAL: AISI 1010-1025 OR ASTM A36/A366/A569/A570 OR OR CSA G40-21 38W/44W/50W/60W/70W CSA G40-21 OR 38W/44W/50W/60W/70W receive ft				12		12		S079412	Stock	6/8/2018	\$ 2 96 / ft	
		3			Astin D.	1010-1025 Steel Bar .500 X .500 : MATERIAL: AISI 1010-1025 OR ASTM A36i/A366i/A569/A570 OR OR CSA G40-21 38W/44W/50W/60W/70W CSA G40-21 OR 38W/44W/50W/60W/70W receive ft						12	Ü	\$079413	Stock	6/8/2018	\$ 1.32 / ft	
		4		23/8/03/6	45-lm	Tool Steel Bar 0.250*** X 3.000*** MATERIAL: AISI 01 TOOL STEEL BAR DIN 1.2510 or B.S. BO 1 or SAE J437 or SAE J438 or UNS T31501 or ASTM A681				3		12		5079414	Stock	6/8/2018	\$ 116.00/ft	
									Total:	31		40						_

Plex 6/8/2018 1:52 PM Dart.Dubois.Pascal



Billed to

Shipped to

, Ontario,

DART AEROSPACE LTD

1270 , ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7

* ACIER OUELLETTE INC. 935, Boul. du Hâvre 935, Boul. du Hâvre Salaberry de Valleyfield (Québec) J6S 5L1 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Date Customer N° 2018/06/01 CLI0001056

Delivery date 2018/06/07

Your order N° 40082

Salesman

Processed by Eric Kaehlert

Carrier

OUELLETTE VALLEYFIELD

Credit Terme

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Page Net 30 Days

	Done of Japane					0		Tatours		Pale
Product Description	Weight	Đ.			PCS NB	8		Internal Use Only	Use	Only
	a cigir	Αth	0/13	CMD	EXP	в/о	IN	SI	С	TUO
1 ROUND CR 4 1/4 1018 NS	192.92	4.00	PI		۲,					
RCR-414 10976					7					
1 × 4'					4		<u>C</u>		***********	
					_				-	
LINE#1								****	٦	810Z 8 0 NOF
)
AC16951-GR-2018-06-06 Heat: 8171649									\$	-10
2 SQUARE CR 3/4 1018 (R)	22.92	12.00	PI_\$CLB	The state of the s			the state of many to the state of the state	The second second second	-	8-8
CCR-34 1826					X			17.500		
1 X 12' RL					ブー、		7			A ()
LIME#2					2					JUN 0 8 2018
Heat: 40080S										DAS
Control of the Contro								***		den den
										9-89

NIR: R-109516-6

Customer No

CLI0001056



Billed to

DART AEROSPACE L'TD

Shipped to

, Ontario,

1270 , ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7

Instruction

7-

Delivery Route

Att : CHANTAL LAVOIE Tél.: 613-632-5200

ACIER OUELLETTE INC.
935, Boul. du Hâvre
935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Date Delivery date 2018/06/01 2018/06/07

Your order N° 40082

Processed by Eric Kaehlert

Carrier Salesman

Credit Terme Net 30 Days OUELLETTE VALLEYFIELD

Page

Heat: Typique	LINE#4 AC16948-VA-2018-04-06	4 FOAT GROSTOCK OF 1/4 X 3 NS FO1-143 10167	LINE# 3	CCR-12 1806	3 SOLINDE CD 1/2 1010 (D)	Product Description
		30.60		10.20		Weight
		12.00	Management of the course of of th	12.00		Qty
		Р		PI_\$CLB		U/M
					CMD	
	w= {		む!	7	EXP	PCS NB
		mayor plant			В/0	NB
	12	and the second s	2	_	NI	
	J		٤		SI	Internal Use Only
	JUN 0 8 2	de l'execution de la constitución de la constitució	JUN 0 8 2018		С	Use O
80 <u></u>	2018 DAS		2018 DAS 9-89		TUO	nly

NIR: R-109516-6

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'el	-
W.	-

DELIVERY - CLIENT

C000092875

Billed to Instruction HAWKESBURY, Ontario, K6A 1K7 DART AEROSPACE LTD 1270, ABERDEEN ST. F-M ACIER OUELLETTE INC. Shipped to , Ontario, Delivery Route Att : CHANTAL LAVOIE Tél.: 613-632-5200 935, Boul. du Hâvre Salaberry de Valleyfield (Québec) J6S 5L1 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248 S Page **Credit Terme** Carrier Salesman Delivery date Date Processed by Your order N° Customer N° ω Net 30 Days 40082 OUELLETTE VALLEYFIELD Eric Kaehlert 2018/06/07 2018/06/01 CLI0001056 00:00

20			
Conditions: Total Weig All sold and delivered materials remain the property of "Acier Quellette Inc" until navment is made in the		Product Description	
Tot			
Total Weight (Lbs): 256.64		Weight	Denvery Nource
s): 256.64		Qty	C
		U/M	
NIR: R-109516-6	CAD		- 490
09516-6	r.X.	PCS NB	1
	В/О	B	
	I		u
	н	Intern	
	S C	Internal Use Only	
	OUT	nly	

	Customer's Signature				
8 3		Time	Delivered B	Verified By :	Prepared By :
respect with this contract will lead to payment by acceleration and permits to be within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.	per month (24% per annum) on all past on the balance due or the repossession of the returned muse the returned muse.	ne seller, at his choice to claim for seller, at his choice to claim for an damaged, cut or modified can	by acceleration and permits to the distribution of the distribution and permits to the distribution of the distribution and permits to the distribution and permits the distribution and permits and distribution and di	ract will lead to payment ith this document enclose rge.	within five (5) days within five (5) days was 25% restocking cha
"Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer's expense. The warranty offered by following conditions: Net 30 days from billing date and the buyer accepts to respect the	"Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer's expense. The warranty off following conditions: Net 30 days from billing date and the buyer accepts to respect the	Il payment is made in full, comple and his warranty is transferred by	id honored by the manufacturer late and the buyer accents to na	is the same as offered an Net 30 days from billing d	"Acier Ouellette Inc." following conditions:
NIK : R-109516-6	20.07		nerty of "Acior Occidents To -!	materials remain the pro-	All sold and delivered

Total (\$CAD)



Dart Aerospace Ltd. 1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada

PURCHASE ORDER PO040082

Tel (613) 632-5200

Supplier:

Ship To:

ACI001-VC

Acier Ouellette Inc. 935 Boul. Du Havre

Valleyfield

QC

J6S 5L1 Canada Phone: 800 667 4248 Fax: 450 377 5696

1270 Aberdeen Street

Hawkesbury

K6A 1K7 Canada Phone: 613-632-5200

ON

PO No:

PO040082

PO Date:

6/1/18

Due Date: **Purchase Order** 6/8/18

Revision:

Revision Date:

Ship-To Contact:

Phone:

Via:

Ground

Pymt Terms:

Net 30

Freight Terms:

Special Comments: quote no. sou0110129

	1			Items							1
Line Item		Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity		Unit Price (CAD)	Extended Price	
1	M1018R4.250	Annual in a management of the statement	1018-1025 Round Bar MATERIAL: AISI 1018- 1025 ROUND BAR SPECIFICATION: MII-S- 7097 OR ASTM A108	Firmed	6/8/18	4 ft	41		\$142.50/ft UN U 8 ZUIB	\$570.00	DAS 11 9-89
2	M1018B0.750X0.750		1010-1025 Steel Bar .750 X .750 : MATERIAL: AISI 1010- 1025 OR ASTM A36/A366/A569/A570 OR OR CSA G40-21 38W/44W/50W/60W/70W CSA G40-21 OR 38W/44W/50W/60W/70W receive ft	Firmed	6/8/18	12 ft	12	12 ft	\$2.9608333/ft JUN 0 8 2	¥ 00.00	DAS 11 9-89
3	M1018B0.500X0.500		1010-1025 Steel Bar .500 X .500 : MATERIAL: AISI 1010- 1025 OR ASTM A36/A366/A569/A570 OR OR CSA G40-21 38W/44W/50W/60W/70W CSA G40-21 OR 38W/44W/50W/60W/70W receive ft	Firmed	6/8/18	12 ft	0 ft	12 ft	\$1.3175/ft. JUN 0 8 20		DA 1 1 9-8
	MT-O1-B- 0.250X3.000	***************************************	Tool Steel Bar 0,250" X 3.000" MATERIAL: AISI 01 TOOL STEEL BAR DIN 1.2510 or B.S. BO 1 or SAE J437 or SAE J438 or UNS T31501 or ASTM A681	Firmed	6/8/18	3 ft	17	3 ft	\$116.00/ n JUN 0 8 2	\$348.00 018	9
			0-4	er Notes				/	Grand Total:	\$969.34	
			Ord	ei Notes					CO		

Plex 6/1/18 12:38 PM dart.lavoie.chanta

DAS

9-89

DAS 11 9-89

Order Notes

Procurement Quality Clauses

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable)

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 6/1/18 12:38 PM dart.lavoie.chantal



Billed to

Shipped to

, Ontario,

DART AEROSPACE LTD

1270, ABERDEEN ST.

HAWKESBURY, Ontario, K6A 1K7

Att: CHANTAL LAVOIE Tél.: 613-632-5200

ACIER OUELLETTE INC.

935, Boul. du Hâvre

Salaberry de Valleyfield (Québec) J6S 5L1

Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation

SOU0110129

Customer Nº

CLI0001056

Date

2018/05/29

Revision Nº

0

Prices valid until

2018/06/05

Your Order No

Processed by

Denis Quenneville

Salesman

DENIS

Carrier

OUELLE SDV

Credit Terms

Net 30 Days

7			Page			1	•		
Product N° and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	
cr round 4.25" DIA N 1 X 4' LINE 1	0.00	1.00) UN		4.00	142.500	570.00
SQUARE CR 3/4 1018 (R) CCR-34 1826 1 X 12' RL LINE 2	22.92	12.00	PI_\$CLB	12.00	PI		12.00	2.960	35.53
SQUARE CR 1/2 1018 (R) CCR-12 1806 1 X 12' RL LINE 3	10.20	12.00	PI_\$CLB	12.00	PI	1.32			15.81
01 FGS 1/4 X 3 X 3' N 4 X 3' LINE 4	0.00	4.00	UN	4.00	UN	87.00			348.00
FUEL CHARGE FRAIS_ENERGETIQUE			\$						3.95
Total Weight (II.)									

Total Weight (Lbs)

33.12

Important

This offer is based on the availability, the price of material can change without notice in function of the evolution of the current market prices. This offer is subject to credit approval.

Sub-total

973.29

TVH-13 · · 126.53

Approuved and Accepted by:

Date :

Total (\$CAD)

1 099.82

MATERIAL RECEIPT INSPECTION FORM

MATERIAL:	JUN U 8	2018	0.500	PO / BATCH	H NO.: <u>04</u>	2082/60
MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:	Ye. 12'	5	_ TH	IICKNESS ORDE ICKNESS RECE EET SIZE ORDE EET SIZE RECE	RED: N	500 500 1/A
DESCRIPTION	NCR (Check Y/N)	1		COMMEN	TS	
SURFACE DAMAGE	YIA	(1				,
CORRECT FINISH	M					
CORROSION	40	7				
CORRECT GRAIN DIRECTION	MY K	/				
CORRECT MATERIAL PER M-DRAWING	(Y) N	MISO	Con dos	t toolin	1	N -
CORRECT THICKNESS	(Y) N		JOE CIEF	7 7351.0	- Alx	15
PHOTO REQUIRED	XIN				V	
CORRECT REF # TO LINK CERT	(Y) N	Heat	H-420	57		
CORRECT MATERIAL IDENTFICATION	YN	The same	7/ /2/01	70		
CORRECT M# ON THE MATERIAL	YN				0	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	YN	9				
DOES THIS REQUIRE AN	Ó					
EXTRUSION REPORT	YN)				
	0					
CUT SAMPLE PIECE	OF MA	ATERIAL A	ND PREFOR	RM A HARDNE	SS CHECK.	
	1	HRC	HRB	DUR A	DUR D	LWEDGEE
YPE OF MATERIAL			11110	DONA	DOND	WEBSTER
SIZE OF TEST SAMPLE						
ARDNESS / DUROMETER READIN	NG			+		
		s located in	the Quality Off	ice.		
			and on			

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY:	DAS 18-06-14	SIGNED OFF BY:
DATE:	9-89 JUN 0 8 2019	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in





DESIGN	DRAWN BY	DART AEROSI HAWKESBURY, ONTA	PACE LTD
CHECKED	APPROVED	DRAWING NO. MICIO-B	REV A
DATE 0(,12	06	AIST 1010-1025 BAR	SCALE
A C	1,12.06	NEW ISSUE	

PURCHASE MATERIAL: AIST 1010-1025 OR ASTM A36 /A366 /ASG9 /AS70 OR CSA G40-21, 38W/44W/50W/60W/70W

PART NUMBER:

MIDIO-BIT. TIT X WW. WWW WHERE T. TIT = THICKNESS (IN IMHES) THICK WIDTH WY. WWW WIDTH (IN INCHES)

EG. 0.75" x 250" BAR = M1010-B0.750 x 02.500



MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MIOI DATE:			0.750	PO / BATCH	1 NO.: <u>040</u>	082/SO 7941
MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:	121 121		THIC	KNESS ORDE KNESS RECE ET SIZE ORDE ET SIZE RECE	IVED: 07	750 50 1/A
DESCRIPTION	NCR (Check Y/N)			COMMEN	TS	
SURFACE DAMAGE	YN					7
CORRECT FINISH	(Y) N					
CORROSION	YN					
CORRECT GRAIN DIRECTION	NX					
CORRECT MATERIAL PER M-DRAWING	N	use S	or dart to	polin onl	7 80.	
CORRECT THICKNESS	YN			1	8	
PHOTO REQUIRED	Y (N)					
CORRECT REF # TO LINK CERT	(X) N	Heat	# 4008)		
	Y N	,	", "			
CORRECT M# ON THE MATERIAL	YN					
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y					
DOES THIS REQUIRE AN EXTRUSION REPORT	YN					
	- (1)					
CUT SAMPLE PIECE			AND PREFORM		SS CHECK.	
		HRC	HRB	DUR A	DUR D	WEBSTER
YPE OF MATERIAL						1120121
SIZE OF TEST SAMPLE						
HARDNESS / DUROMETER READIN	IG				*	
	testers	located in	the Quality Office	2		

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY:	11 D 18.06.14	
DATE:	9-8JUN 0 8 2018	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in





DESIGN	DRAWN BY	DART AEROSP HAWKESBURY, ONTAR	ACE LTD
CHECKED (APPROVED	DRAWING NO. MIDIO-B	REV A
DATE O(.15	2.06	ALCI 1010-1025 BAR	SCALE NTS
A	01,12.06	NEW ISSUE	

PURCHASE MATERIAL: AIST 1010-1025 OR ASTM A36 /A366 /A569 /A570 OR CSA G40-21, 38W/44W/50W/60W/70W

PART NUMBER:

MIDIO-BIT. TIT X WW. WWW WHERE T.TTT = THICKNESS (IN IMHES) WW.WWW WIDTH (IN INCHES)

EG. 0.75" x 250" BAR = M1010-B0.750 x 02.500



MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MOD DATE:			PO / BATCH	1 NO.: 040	082/507	
MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:	1es 41 41		THIC SHE	CKNESS ORDE CKNESS RECE ET SIZE ORDE ET SIZE RECE	IVED: 4	250 250 27/A
DESCRIPTION	NCR (Check Y/N)			COMMEN	TS	
SURFACE DAMAGE	YIN					
CORRECT FINISH	TN					
CORROSION	YN			70		
CORRECT GRAIN DIRECTION	(Y) N		1			
CORRECT MATERIAL PER M-DRAWING	MN	Astw	2 /105	7		
CORRECT THICKNESS	Y N	101	1 100	550 S 5500 S 1990 S 550		
PHOTO REQUIRED	YN					
CORRECT REF # TO LINK CERT	(Y) N	Herit	H. 81716	49		
CORRECT MATERIAL IDENTFICATION		7	,		100	
CORRECT M# ON THE MATERIAL	(Y) N					
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	× (
DOES THIS REQUIRE AN EXTRUSION REPORT	YN					
		7				
CUT SAMPLE PIEC	E OF MAT	TERIAL A	ND PREFOR	M A HARDNE	SS CHECK	
			ULTS BELOV			
		HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL						
SIZE OF TEST SAMPLE	1000					
HARDNESS / DUROMETER READI	NG					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY:	SIGNED OFF BY:
DATE: 9-89UN 0 8 2018	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

0

CHECKED

DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
DRAWING NO.
M1018-R
SHEI

>

DESIGN

APPROVED DE APPR. MFG. APPR.

12.09.05

1018-1025 ROUND BAR NT.

COPYRIGHT © 2001 BY DART AEROSPACE LTD

THE DOCUMENT SHOWLD SECURITY AND ARROWS AND THE SHOWLD ARROWS AND T

REV. B SHEET 1 OF 1 SCALE NTS

REFORMAT, ADD ASTM A108, ADD TOLERANCES NEW ISSUE DESCRIPTION B CP 01.06.12 12.09.05 DATE

2012 -09- 24

SPECIFICATION: PART NUMBER:

MIL-S-7097 OR ASTM A108

TOLERANCES:

PER ASTM A108 AS FOLLOWS: EG. 7/8" ROUND BAR = M1018-R0.875 M1018-R D.DDD WHERE D.DDD = DIAMETER IN INCHES DIA.

SIZE UP TO 1.5" INCL. OVER 2.5" TO 2.5" INCL. OVER 2.5" TO 4.0" INCL. OVER 4.0" TO 6.0" INCL. OVER 6.0" TO 8.0" INCL.

TOLERANCE +0.000/-0.002 +0.000/-0.003 +0.000/-0.004 +0.000/-0.005 +0.000/-0.006

PURCHASE MATERIAL: AISI 1018-1025 ROUND BAR

MATERIAL RECEIPT INSPECTION FORM

MATERIAL:	O/ UN	- <i>B</i> - 082	<u>0.250</u> 2018	¥3≈00 -)	PO / BATCI	н NO <u>У</u> С	e83 pe
MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:		THICKNESS ORDERED: 0,250 THICKNESS RECEIVED: 0,250 SHEET SIZE ORDERED: 1/4 SHEET SIZE RECEIVED: 1/4						
DESCRIPTION	(CI	CR heck (N)				COMMEN	TS	
SURFACE DAMAGE	Y	IN		501,001				
CORRECT FINISH	(Y	N						
CORROSION	Y	(N)		X W-1/4				
CORRECT GRAIN DIRECTION	Y	N	- 12		-			
CORRECT MATERIAL PER M-DRAWING	Y	N	0-1	VI		***************************************		
CORRECT THICKNESS	Y	N				WW		
PHOTO REQUIRED	Y	N			95			-
CORRECT REF # TO LINK CERT	(V)	N	Heat	t tu	Pigo	ie		
CORRECT MATERIAL IDENTFICATION	8	N	,,,,,,	11.	. (
CORRECT M# ON THE MATERIAL	E	N						
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	(<u>N</u>)						
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	3						
CUT SAMPLE PIECE	OF	MA	TERIAL A	ND PRF	FORM	A HARDNE	SS CHECK	
			ORD RES				OF OFFICERY.	
			HRC	HRE		DUR A	DUR D	WEBSTER
YPE OF MATERIAL								WEBSTER
SIZE OF TEST SAMPLE					$\neg \uparrow$			
ARDNESS / DUROMETER READIN	NG		100					
	te	sters	located in	the Qualit	y Office	?		

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY:	SIGNED OFF BY:
DATE: 9-89JUN 0 8 2018	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

APPROVED WM AISI O1 TOOL STEEL BAR ВУ W MT-01-B 17.08.09 DATE DESCRIPTION ELN 11 - LAB NEW ISSUE TOLERANCES PER MANUFACTURER SPECIFICATIONS REV. < MT-O1-B-[H.HHH]x[W.WWW] WHERE "H.HHH" = HEIGHT IN INCHES WHERE "W.WWW" = WIDTH IN INCHES EG. 4"x6" BAR = MT-O1-B-4.000x6.000 SPECIFICATION CONTROL DRAWING DIN 1.2510 or B.S. BO 1 or SAE J437 or SAE J438 or UNS T31501 or ASTM A681 AISI 01 TOOL STEEL BAR PURCHASE MATERIAL: SPECIFICATION: PART NUMBER: æ

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Q



ARANA Y LUPARDO, 2

48490 UGAO-MIRAVALLES/VIZCAYA (SPAIN)

Tino.: 946480211 Fax: 946480128

Email: calpradera@calibradospradera.es

www.calibradospradera.es

CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a /Made according to:

EN 10204/DIN 50049

3.1

Nº CERTIFICADO / CERTIFICATE NR.: 47192

ALBARAN 47192 Delivery Note Nr.

CLIENTE

LES ACIERS TRANSBEC (1997) LTÉE

CUSTOMER

Norma: EN 10277

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norm:

Bright steel products. Technical delivery conditions.

		Ī	%	. %	%	%	%	. %	%	%	%	%
			C	Cr	Cu	Mn	Mo	- Ni	P	Pb	S	Si
31,75 0,0	0 138964	41378 G	0,170	0,050	0,146	0,630	0.011	0.084	0,009	0.000	0.009	0,165
31,75 0,0	0 139049	41378 G	0,170	0,050	0,146	0,630	0.011	0,084	0.009	0.000	0.009	0,165
9,53 0,0	0 202340	41113 AA*	0,079	0,027	0,016	1,097	0,004	0,019	0.056	0,276	0.279	0,022
25,40 0,0	0 202179	40463 S	0,073	0,058	0,012	1,090	0,005	0,020	0.068	0,252	0,302	0,005
15,88 0,0		40619 AA	0,150	0,000	0,000	0,775	0,000	0,000	0,013	0.000	0,027	0,157
19,05 0,0		40080 S	0,165	0,000	0,000	0,780	0,000	0,000	0,009	0,000	0.024	0.274
25,40 0,0		41198 G	0,160	0,000	0,000	0,630	0,000	0,000	0,007	0,000	0,010	0,136
31,75 0,0	0 139168	41378 G	0,170	0,050	0,146	0,630	0,011	0,084	0,009	0,000	0,009	0,165

Características mecánicas / Mechanical properties

MEDIDA Measurement	OF	COLADA Cast Nr.	Resistencia Tens. strenght Nimm2	Lim.elástico Yield point 0,2% Nimm2	Alargandento Elongation Lo=50 mm.	Dureza HB Hardness HB	Estricción %
11,11	908989	29708 G	628,75	591,11	16,94	190,00	62,76
25,40	916007	40655 G	586,71	565,37	21,86	176,00	57,70
	916018	40545 G	586,33	574,71	19,72	176,00	58,62
	916469	41198 G	614,68	599,18	22,76	180,00	56,57
25,40	202179	40463 S	521,37	485,79	25,34	153,00	49,11
22,23	915964	40717 G	625,03	599,51	24,20	185,00	55,97
31,75	138699	41378 G	586,30	560,30	24,30 .	176,00	58,56
23,81	915312	37291 A	619,20	609,49	22,34	185,00	55,46
15,88	915991	40639 S	585,04	539,10	15,16	180,00	56,61
31,75	138956	41378 G	586,30	560,30	24,30	176,00	58,56
19,05	915992	40080 S	530,32	510,28	34,50	162,00	62,99
15,88	916391	40619 AA	579,16	547,66	19,70	169,09	-58,82
28,58	916104	40910 G	568,80	546,30	32,76	169,00	59,00
31,75	138948	41378 G	586,30	560,30	24,30	176,00	58,56
9,53	915990	40828 G	783,23	761,48	10,92	247,00	0,00
31,75	138964	41378 G	586,30	560,30	24,30	176,00	58,56
31,75	139049	41378 G	586,30	560,30	24,30	176,00	58,56
9,53	202340	41113 AA*	602,60	585,60	14,04	180,00	51,75
25,40	202179	40463 S	521,37	485,79	25,34	153,00	49,11
15,88	916391	40619 AA	579,16	547,66	19,70	169,00	58,82
19,05	915992	40080 S	530,32	510,28	34,50	162,00	62,99
25,40	916469	41198 G	614,68	599,18	22,76	180,00	56,57
31,75	139168	41378 G	586,30	560,30	24,30	176,00	58,56

Calidad Superficial



ARANA Y LUPARDO, 2

48490 UGAO-MIRAVALLES/VIZCAYA (SPAIN)

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CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a /Made according to:

EN 10204/DIN 50049

Nº CERTIFICADO / CERTIFICATE NR.: 47192

3.1

ALBARAN 47192 Delivery Note Nr.

CLIENTE LES CUSTOMER

LES ACIERS TRANSBEC (1997) LTÉE

Norma: EN 10277

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norm:

Bright steel products. Technical delivery conditions.

DESCRIPCIÓN Description	OF	Clase EN 10277-1
1018 RED. ESTIRADO 11,11 (7/16")	908989	2
1018 RED. ESTIRADO 25,40 (1")	916007	2
1018 RED. ESTIRADO 25,40 (1")	916018	. 2
1018 RED. ESTIRADO 25,40 (1")	916469	. 2
12L14 HEX. ESTIRADO 25,40 (1")	202179	1
1018 RED. ESTIRADO 22,23 (7/8")	915964	. 2
1018 RED. ESTIRADO 31,75 (1 1/4")	138699	3
1018 RED. ESTIRADO 23,81 (15/16")	.915312	. 2
1018 RED. ESTIRADO 31,75 (1 1/4")	138956	3
1018 RED. ESTIRADO 15,88 (5/8")	916391	2
1018 RED. ESTIRADO 28,58 (1 1/8")	916104	2
1018 RED. ESTIRADO 31,75 (1 1/4")	138948	. 3
1018 RED. ESTIRADO 31,75 (1 1/4")	138964	. 3
1018 RED. ESTIRADO 31,75 (1 1/4")	139049	. 3
12LI4 RED. ESTIRADO 9,53 (3/8")	202340	3
12L14 HEX. ESTTRADO 25,40 (1")	202179	1
1018 RED. ESTIRADO 15,88 (5/8")	916391	. 2
1018 RED. ESTIRADO 25,40 (1")	916469	. 2
1018 RED. ESTIRADO 31,75 (1 1/4")	139168	. 3

Observaciones: BARRAS DE ACERO ESTIRADAS EN FRIO SIN ALEAR

DEPARTAMENTO DE CALIDAD: Certifica que el mencionado producto cumple con las especificaciones del pedido.

QUALITY DEPARTMENT: Certify that the product fulfils the order specifications.

Fecha/Date: 08/05/2017

Firmado: Susana Fernández Directora de Calidad



Sixtuena de Gassión ISO 9001:2008 92875



16951N

								,
	CERT	icicate c	NE COMPLIA	NCE/C	ERTIFICAT	E CONF	ORMITÉ	16
lo, de comman			CUSTOMER			No. d'expé	dition/packing slip #	DATE
lo. de comman			CUSTOMER			No. dexpé	dition/packing slip #	DATE JAN-30-14
10. DU MATÉRIEL 2013-1550		C1018) af		ENTTHERMIOUE/HE INISHED/FI			8171649
FORME / SHAPE		4.250"	Jan			SPÉCIFICA ASTM /		4
PAYS D'OR	IGINE:	USA						
		ANAL	YSE CHINIQ	UE / CHÉ	MICAL COMP	NOITIEO		
	Carbon (C)		Silicon (Si)		Manganes	e (Mn)	Phosphorus	e (L)
min/max achiel (%)	0.150 0.170	0.200	0.100 0.200	0.200	0.690 0.690	0.900	0.049 0.007	
mir/mex:	Sulfur (S)		Chromium	(Cr) 0.200	Nickel (Ni)	0.250	Molybdenu 0.000 0.020	em (Mo) 0.060
actuel (%)	0.028 Copper (Co	۸	0.070 Vanadium	00	0,060 Aluminiun	n (Al)	Tungsten (W)
min/max:	0.000	0.950			-	Man	_	bur-
actuel (%)	0.080	1200000 - 57000 - 57000 V	0.001		0.022		0.000	

PROPRIÉTÉS MÉCANIQUES / MECHANICAL PROPERTIES									
Tolérance diamètre / diameter	Résistance à la traction /Tensile	Alongement / Elongation (%)	Réduction surface / ratio	Surface HO/duretó					
Λ.	, PSI		0.0	-					

Aucune réparation evécutée par soudure durant la fabrication de ce produit. Par la présente nous attestons que les résultats ci-haut mentionnés ont été vérifiés et sent conformes aux spécifications.

No weld repairs performed during the manufacturing of this product. We hereby certify that the above results have been verified and conform to the above mentionned specifications.

Keith BALL

41/4" CD1018 IMIT.

1114-1595



47192

ARANA Y LUPARDO, 2

48490 UGAO-MIRAVALLES/VIZCAYA (SPAIN)

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CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a /Made according to:

EN 10204/DIN 50049

3.1

CLIENTE

Nº CERTUFICADO / CERTIFICATE NR.: 47192

CUSTOMER

LES ACIERS TRANSBEC (1997) LTÉE

Delivery Note Nr. Norma: EN 10277

ALBARAN

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norm:

Bright steel products. Technical delivery conditions.

PRODUCTO SOLICITADO / PRODUCT ACCORDING ASTM A 108

		ECS	5	80.0	
PAJ-47267	1018 RED. ESTIRADO 11,11 (7/16")	832	- 0.051		
CA-46387	1018 RED. ESTIRADO 25,40 (1")	732	- 0.051	908989	11,11
CA-46387	1018 RED. ESTIRADO 25,40 (1")	548	- 0,051	916007	25,40
CA-46387	1018 RED. ESTIRADO 25,40 (1")	998	- 0.051	916018	25,40
MJP-47245	12L14 HEX. ESTIRADO 25,40 (1")	976		916469	25,40
OU-47424	1018 RED. ESTIRADO 22,23 (7/8") RCR 78	960	- 0,076	202179	25,40
AQM-46896	1018 RED. ESTIRADO 31,75 (11/4")	990	- 0,051	915964	22,23
OU-47436	1018 RED. ESTIRADO 23,81 (15/16")		-0,051	138699	31,75
VI-47383	1018 CUA. ESTIRADO 15,88 (5/8")	820	- 0,051	915312	23,81
PAJ-47709	1018 RED. ESTIRADO 31,75 (1 1/4")	- 996	-0,110	915991	15,88
PAR-47756	1018 CUA. ESTIRADO 19,05 (3/4")	958	- 0,051	138956	31,75
PAR-47756	1018 RED. ESTIRADO 15,88 (5/8°)	1.000	- 0,130	915992	19,05
PAR-47756	13,00 (38)	. 1.014	- 0,051	916391	15,88
MJP-47531		1.006	- 0,051	916104	28,58
PAJ-47709	1018 RED. ESTIRADO 31,75 (1 1/4") 1018 CUA. ESTIRADO 9,53 (3/8")	1.922	- 0,051	138948	31,75
PAR-47756		982	- 0,090	915990	9,53
CA-46398		. 924	- 0,051	138964	31,75
PAR-47851	71,5(11,4)	960	- 0,051	139049	31,75
PAJ-47738	12L14 RED. ESTIRADO 9,53 (3/8")	. 992	- 0,051	202340	9,53
MJP-47861	12L14 HEX. ESTIRADO 25,40 (1")	. 990	- 0,076	202179	25,40
OU-47812	15,08 (5/6)	2.020	- 0,051	916391	15,88
	1018 CUA. ESTERADO 19,05 (3/4") CCK 34	1.002	-0,130	915992	19,05
OU-47812	1018 RED. ESTIRADO 25,40 (1") RCR	. 1.202	-0,051	916469	25,40
VI-46700	1018 RED. ESTIRADO 31,75 (1 1/4")	1.854	-0,051	139168	31,75

Composición química de la colada / Chemical Analysis of Heat

MEDIDA	OF	COLADA	%	%	%	%	%	. %	%	1 %	%	1 %
Measurement		Cast Nr.	С	Cr	Ca	Mn	Mo	. Ni	P	Pb	S	Si
11,11 0,00	908989	29708 G	0,150	0,000	0,000	0,600	0,000	0.000	0.014	0.000	0.025	0,22
25,40 0,00	916007	40655 G	0,170	0,106	0,231	0,610	0.024	0,111	0.011	0.000	0.016	
1	916018	40545 G	0,170	0,106	0,231	0.610	0.024	0.111	0,011	0.000		0,14
	916469	41198 G	0.160	0,000	0,000	0,630	0,000	0,000	0,007	_	0,016	0,14
25,40 0,00	202179	40463 S	0,073	0,058	0.012	1.090	0,005	0,020		0,000	0,010	0,13
22,23 0,00	915964	40717 G	0,160	0.000	0.000	0,640			0,068	0,252	0,302	0,00
31,75 0,00	138699	41378 G	0,170	0,050	0,146		0,000	0,000	0,014	0,000	0,008	0,13
23,81 0,00	915312	37291 A	0,170	0.000		0,630	110,0	0,084	0,009	0,000	0,009	0,16
5.88 0.00	915991	40639 S	-		0,000	0,705	0,000	0,000	0,013	0,000	0,025	0,18
1.75 0.00	138956	41378 G	0,165	0,000	0,000	0,763	0,000	0,000	0,015	0,000	0,021	0.28
9.05 0.00	915992		0,170	0,050	0,146	0,630	0,011	0,084	0,009	0,000	0,009	0,16
5,88 0,00	916391	40080 S	0,165	0,000	0,000	0,780	0,000	0,000	0,009	0,000	0.024	0,274
8.58 0.00		40619 AA	0,150	0,000	0,000	0,775	0,000	0,000	0,013	0.000	0,027	0.15
	916104	40910 G	0,155	0,000	0,000	0,635	0,000	0,000	0,013	0,000	0,016	0,13
1,75 0,00	138948	41378 G	0,170	0,050	0,146	0,630	0,011	0.084	0,009	0,000	0,009	0.16
9,53 0,00	915990	40828 G	0,140	0,000	0,198	0,760	0,000	0,000	0,016	0.000	0,033	0,243



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CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a /Made according to:

EN 10204/DIN 50049

3.1

ALBARAN 49249 Delivery Note Nr.

N° CERTIFICADO / CERTIFICATE NR.: 49249 CLIENTE CUSTOMER

LES ACIERS TRANSBEC (1997) LTÉE

Norma: EN 10277

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norm:

Bright steel products. Technical delivery conditions.

PRODUCTO SOLICITADO / PRODUCT ACCORDING ASTMA108

PAJ-48097	1018 CUA. ESTIRADO 12,70 (1/2")	A STATE OF THE STA	**************************************		
OU-48310	1018 CUA. ESTIRADO 12,70 (1/2") (TRIP)	994	- 0,110	916898	12,70
OU-48310	1010	988	- 0,110	(916898)	12,70
PAR-48569		1.002	- 0,051	140429	7.94
PAJ-48393	12L14 RED. ESTIRADO 15,88 (5/8")	994	- 0,051	140560	15,88
PAR-48569	1018 CUA. ESTIRADO 12,70 (1/2")	1.972	-0,110	916898	12,70
SM-48509	1018 CUA ESTIRADO 12,70 (1/2")	990	-0,110	916898	12,70
PAR-48735	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	986	-0,110	916898	12,70
AR-48735	1018 CUA ESTIRADO 12,70 (1/2")	1.300	- 0,110	916898	12,70
AR-48735	12L14 RED. ESTIRADO 14,29 (9/16")	988	- 0,051	202401	14,29
	12L14 RED. ESTIRADO 31,75 (1 1/4")	842	- 0.051	202514	31.75
AR-48735	12L14 RED. ESTIRADO 31,75 (1 1/4")	1.000	- 0.051	202539	31,75
/IJP-48737	12L14 HEX. ESTIRADO 25,40 (1")	990	- 0,076	916873	25,40

Composición química de la colada / Chemical Analysis of Heat

MEI Measu	DIDA rement	OF	COLADA Cast Nr.	% C	% Cr	% Cu	% Mn	% Mo	% N	%	%	%	%	- %
12,70	0.00	916898	42008	0,160	0.000	0.276				Ni	P	Pb	S	Sì
12,70	0.00	916898	(42008)				0,782	0,000	0,000	0,000	0,009	0.000	0.008	0,20
7,94	0,00	140429	42010 GM	0,160	0,000	0,276	0,782	0,000	0,000	0,000	0.009	0.000	0.008	0,20
15.88	0.00			0,160	0,000	0,290	0,710	0,000	0,008	0.000	0.020	0.000	0.016	
2.70		140560	41826 G	0,066	0,028	0,085	1,125	0,010	0,000	0,033	0.044	0,260		0,18
_	0,00	916898	42008	0,160	0,000	0,276	0,782	0.000	0.000	0,000	0,009		0,304	0,01
2,70	0,00	916898	42008	0,160	0.000	0.276	0.782	0,000	0,000	-		0,000	0,008	0,20
2,70	0,00	916898	42008	0,160	0.000	0,276	0.782	0,000		0,000	0,009	0,000	0,008	0,20
2,70	0,00	916898	42008	0.160	0.000	0,276			0,000	0,000	0,009	0,000	0,008	0,20
4,29	0,00	202401	41319 OC	0.080	0,016		0,782	0,000	0,000	0,000	0,009	0,000	0.008	0.20
1,75	0.00	202514	40991 W	0,070		0,010	1,020	0,002	0,000	0,014	0,058	0.280	0,280	0,00
7.	-,	202539			0,140	0,270	1,110	0,030	0,000	0,120	0,052	0.210	0.313	
5,40	0,00		41904 AG	0,080	0,094	0,016	1,100	0,012	0,000	0,026	0.068	0,320		0,02
3,40	0,00	916873	40463 S	0,073	0,058	0.012	1.090	0,005	0.000	0,020	0.068	0,320	0,300	0,00

Características mecánicas / Mechanical properties



ARANA Y LUPARDO, 2

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CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a /Made according to:

EN 10204/DIN 50049

3.1

ALBARAN 49249
Delivery Note Nr.

N° CERTIFICADO / CERTIFICATE NR.: 49249
CLIENTE LES ACIERS TRANSBEC (1997) LTÉE

CUSTOMER

Norma: EN 10277

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norm:

Bright steel products. Technical delivery conditions.

MEDIDA Measuremen	0,	COLADA Cast Nr.	Resistencia Tens. strenght N/mm2	Lim.elástico Yield point 0,2% N/mm2	Alargamiento Elongation	Dureza HB Hardness	Estricción %
12,70	916898	42008	628,74	580,60	Lo=50 mm.	HB	
12,70	916898	(42008)	628,74		14,70	190,00	58,11
7,94	140429			580,60	14,70	190,00	58,11
		42010 GM	688,00	633,40	10,22	200,00	61,60
15,88	140560	41826 G	588,93	579,26	11,28	175,00	
12,70	916898	42008	628,74	580,60	14,70		41,65
12,70	916898	42008	628,74			190,00	58,11
12,70	916898	42008		580,60	14,70	190,00	58,11
12,70			628,74	580,60	14,70	190,00	58,11
	916898	42008	628,74	580,60	14,70	190,00	58,11
14,29	202401	41319 OC	576,87	562,77	13,24	165,00	
31,75	202514	40991 W	545,20	529,60			55,62
	202539	41904 AG	561,90		24,08	200,00	40,07
25,40				548,20	28,26	180,00	47,30
23,70	916873	40463 S	521,37	485,79	25,34	153,00	49,11

Calidad Superficial

DESCRIPCIÓN Description	OF	Clase EN 10277-1
1018 RED. ESTIRADO 7,94 (5/16")	140429	2
12L14 RED. ESTIRADO 15,88 (5/8")	140560	2
12L14 RED. ESTIRADO 14,29 (9/16")	202401	
12L14 RED. ESTIRADO 31,75 (1 1/4")	202514	3.
12L14 RED. ESTIRADO 31,75 (1 1/4")	202539	3
12L14 HEX. ESTIRADO 25,40 (1")	916873	
	910873	1

Observaciones: BARRAS DE ACERO ESTIRADAS EN FRIO, SIN ALEAR

DEPARTAMENTO DE CALIDAD: Certifica que el mencionado producto cumple con las especificaciones del pedido. QUALITY DEPARTMENT: Certify that the product fulfils the order specifications.

Fecha/Date: 19/10/2017

Firmado: Susana Fernández Directora de Calidad





Sistema de Gestión ISO 9001:2008

WWW.DJV,6000 D' 1100000024 92875

LETTRE DE CONFORMITÉ CERTIFICATE OF COMPLIANCE



(Material Verification)

		ACIFR OUE	ELLETTE INC		
CUSTOME	R / CLIENT:	AGILIT OUL		Customer PO# /	
Shipping / E	oate / d'envoi:	31/05	5/2018	Commande Client :	AC00016948
Order # / C	ommande # :	L438	52-01		
COUNTE	RY OF ORIGI	N: U.S.A.			
MATERIAL ,	/ MATÉRIEL :		-1 /	Dimension :	TOUS LES GRANDEURS
Heat # / No	Fabrication :	ТҮР	QUE X	Lot # / No de lot :	
Specification:	ns Spécifications		ID STOCK) / PLATS E PRECISION		
Chemical	/ Analyse / Ch	imique :			
c	0.900	Cu			
Mn	1.200	Cb			
Ph		Ta			
Su		٧	0.200		
Si	0.300	Co		N .	
Cr	0.500	w	0.500		
Мо		Autre:			
Ni	· · · · · · · · · · · · · · · · · · ·				
Mechanica	I / Propriétés	/ Mécaniques :			
Yield Strengt	h				
Elasticité :	-			Elongation:	
Tensile Stren Résistance tr				Reduction ratio Corroyage :	
					-
Nous certif We hereby	ions que les r certify that the	ésultats mentic e above results	nnés ci-hauts ont have been verifie	été vérifiés et rencontre	ent les critères voulus. ove mentioned specifications.
				and comonnic and abo	ove mentioned specifications.
Date:		28/06/	2017		Oc The
				9	Keith BALL (Branch Manager)